

E N r o r . o r	Description	Error / Cause / Remedy	digital signals (S)	WD250: Alarm resolution
100	Door is Open	Switch (S1), relay (K1) or LS potentiometer value (R1) is not within range or has gone out of range while program was running. Input (S110), (R1) is monitored only while program is running.	S110	
101	Door does not open	If the opening process with LS motor (M35) takes longer than 16 s until the switch (S112) opens or the potentiometer value (R1) is closed, the controller terminates the process with error display. Input (S112), (R1) is monitored during the opening process.	S112	Door drive Door belts: US: M35 & REL35 open & REL36 close CS: M37 & REL37 open & REL38 close Motor doesn't drive: Door drive belts intact? Replace belts. Contactor activates: Check 3Ø voltage contactor, Check fuses F11, F12, Check door motor capacitor. Contactor doesn't activate: Check 24Vac, Replace contactor, Check output LED's on Control PCB: Check wiring, Replace Control PCB, Motor drives: Check upper/lower limit switches. Check wiring.
102	Door does not close	If the closure process with LS motor (M35) takes longer than 16 s until the upper switch (S1/K1) closes or the potentiometer value (R1) is closed, the controller terminates the process with error display. Input (S110), (R1) is monitored during the closure.	S110	Door drive Door belts: US: M35 & REL35 open & REL36 close CS: M37 & REL37 open & REL38 close Motor doesn't drive: Door drive belts intact? Replace belts. Contactor activates: Check 3Ø voltage contactor, Check fuses F11, F12, Check door motor capacitor. Contactor doesn't activate: Check 24Vac, Replace contactor, Check output LED's on Control PCB: Check wiring, Replace Control PCB, Motor drives: Check upper/lower limit switches. Check wiring.

103	Object in Door	LS Safety switch actuator (S209) has been triggered. If during the closure process the safety switch actuator opens Relay ESR1, the controller terminates the closure process with error display and reopens the door (M35). Input (S209) is monitored only during the closure process.	S209	Door tape safety switch DS: ESR-1 & K1 CS: ESR-2 & K2 Obstruction in door track: Clear obstruction. Check Tape Switch Relay PCB: Red LED: tape switch disconnected, check wiring/plug, replace tape switch. Yellow LED: tape switch tripped: No obstruction, replace switch. Green LED: tape switch normal.
105	Door is Open	Switch (S2), relay (K2) or US potentiometer value (R2) is not within range or has gone out of range while program was running. Input (S111), (R2) is monitored only while program is running. Cause and remedy see Error 100	S111	
106	Door does not open	If the opening process with US motor (M38) takes longer than 16 s until the switch (S113) opens or the potentiometer value (R2) is closed, the controller terminates the process with error display. Input (S113), (R2) is monitored during the closure.	S113	Door drive Door belts: US: M35 & REL35 open & REL36 close CS: M37 & REL37 open & REL38 close Motor doesn't drive: Door drive belts intact? Replace belts. Contactors activate: Check 3Ø voltage contactor, Check fuses F11, F12, Check door motor capacitor. Contactors don't activate: Check 24Vac, Replace contactor, Check output LED's on Control PCB: Check wiring, Replace Control PCB, Motor drives: Check upper/lower limit switches. Check wiring.

107	Door does not close	If the closure process with US motor (M38) takes longer than 16 s until the upper switch (S2/K2) closes or the potentiometer value (R2) is closed, the controller terminates the process with error display. Input (S111), (R2) is monitored during the closure.	S111	Door drive Door belts: US: M35 & REL35 open & REL36 close CS: M37 & REL37 open & REL38 close Motor doesn't drive: Door drive belts intact? Replace belts. Contactor activates: Check 3Ø voltage contactor, Check fuses F11, F12, Check door motor capacitor. Contactor doesn't activate: Check 24Vac, Replace contactor, Check output LED's on Control PCB: Check wiring, Replace Control PCB, Motor drives: Check upper/lower limit switches. Check wiring.
108	Object in Door	US Safety switch actuator (S210) has been triggered. If during the closure process the safety switch actuator opens Relay ESR1, the controller terminates the closure process with error display and reopens the door (M38). Input (S210) is monitored only during the closure process.	S210	Door tape safety switch DS: ESR-1 & K1 CS: ESR-2 & K2 Obstruction in door track: Clear obstruction. Check Tape Switch Relay PCB: Red LED: tape switch disconnected, check wiring/plug, replace tape switch. Yellow LED: tape switch tripped: No obstruction, replace switch. Green LED: tape switch normal.
109	No Communication	Communication between processor and door panel PCB (IPD) has been disrupted.		
110	No Pressure	Pressure in washing system has dropped below minimum. If Switch (S211) is still open during the program 90 s after the filling phase, the controller terminates the current program with error display. Input (S211) is monitored only with Utilities (M1-M4), (M7-M9), 90 s after the program time and below 85°C. Monitoring is inactive above 85°C.	S211	Pressure Switch S211: Wash pump circulates water. Level sensor ok: Check for activation of S211. Replace switch.

112	System Leakage	Leakage in the device. If Switch (SB) in the floor pan closes for longer than 2 s, the controller terminates the current program with error display. Input (SB) is monitored in "Program Ready" -Mode as well.	SB	
113	Screen Clogged	If Switch (S109) opens for more than 4 s with 35 mm water column, the controller terminates the current program with error display. Input for Switch (S109) is monitored during Function (F1) in the program cycle with water (M1-M4), (M7) and (M9), and also in "Program Ready" -Mode	S109	
114	Tank Disinfection	Re-cooling of the disinfected final rinse water is not possible. Failure to reach the target temperature of the final rinse water. The input "DI tank code SC" is open in Program Step M7. Program Step M7 is missing in Program Step M8.	SC, K55	
118	Program Recognition	When automatic program recognition is activated, the switches are checked for function. If one of the switches (S101-S103) and (S106- S108) will not close, an error is displayed. When the LS door is open, all switches are monitored. When Switch (S105) has closed, Switches (S101-S103), (S106) and (S107) must have closed at least once beforehand, otherwise an error is displayed.	S101-S103,S106-S108	

121	No Water	Level sensor is defective or not connected. If the level sensor (P1) is not closed for longer than 2 s (value between 0.2V and 4.5V), the controller terminates the current program with error display. The threshold values for Input (P1) are monitored during the program cycle.		Drain valve Drain valve not closing. If possible, check floor drain for water flow during wash. If drain boot suspected, do not dismantle drain valve until replacement part available. Replace drain boot. Level sensor Faulty level sensor. Check voltage at transducer. Empty level: 0.5Vdc, Working level: minimum 1.0Vdc, dynamic reading. Replace sensor Replace sensor board Check wiring Check power supply Check input to control board Replace control board.
130	NTC 1 Defective	The temperature sensor in the washing chamber floor is defective or not connected (value between 0°C and 150°C). The controller terminates the current program with error display.		Drain valve Drain valve not closing. If possible, check floor drain for water flow during wash. If drain boot suspected, do not dismantle drain valve until replacement part available. Replace drain boot. Level sensor Faulty level sensor. Check voltage at transducer. Empty level: 0.5Vdc, Working level: minimum 1.0Vdc, dynamic reading. Replace sensor Replace sensor board Check wiring Check power supply Check input to control board Replace control board.
131	NTC 2 Defective	Dryer temperature sensor (NTC2) is defective or not connected. Cause and remedy see Error 130		Temperature Sensors: Blowers/heaters activate; no change in temperature display: Check wiring to sensors. Replace sensors. Check Control PCB. Error code 132: may indicate inadequate air flow to sensor #2 in heater compartment. Check that diffuser plate in heater compartment is aligned to upper port.
133	NTC 3 Defective	Temperature sensor (NTC3) is defective or not connected. Cause and remedy see Error 130		
134	NTC 4 Defective	PW tank temperature sensor (NTC4) is defective or not connected. Cause and remedy see Error 130		
135	NTC 5 Defective	Washing chamber floor temperature sensor (NTC5) is defective or not connected. Cause and remedy see Error 130		

136	NTC 6 Defective	PW tank temperature sensor (NTC6) is defective or not connected. Cause and remedy see Error 130		
140	No Purified Water to tank	PW tank float Switch (SD) is still open after 15 minutes while filling is in process. No purified water supply to tank.	SD	
141	No Cold Water	Failure to reach operating level with CW during the filling process. No CW supply in the washing chamber, or switch (S1, S2) open. If, in the filling process with CW (Y11), Operating Level 2 of the level sensor (P1) is not reached within 5 minutes, the controller terminates the current program with error display. Threshold monitoring: Only during the filling process until Operating Level 2 has been reached.	L1,S110,S111	Supply and shut off valves Check with facilities maintenance for any water outages. Verify all water supply valves are turned on. Water valves Water valves not opening. Activate all water valves in the service mode and verify activation/flow. Check voltage to coil & Check 24Vac power supply & Check fuses F1, F2, F9, F10 & Check wiring, connectors. Strainers Clogged water supply strainers. Clean. Hoses Check hoses for any kinks or obstructions. Melted rubber oozes out of SS braids. Hoses lying against steam hoses. Replace hose(s).
142	No Warm Water	Failure to reach operating level during the filling process. No warm water supply in the washing chamber, or switch (S1, S2) open. If, in the filling process with WW (Y12), Operating Level 2 of the level sensor (P1) is not reached within 5 minutes, the controller terminates the current program with error display Cause and remedy see Error 141.	L1,S110,S111	Supply and shut off valves Check with facilities maintenance for any water outages. Verify all water supply valves are turned on. Water valves Water valves not opening. Activate all water valves in the service mode and verify activation/flow. Check voltage to coil & Check 24Vac power supply & Check fuses F1, F2, F9, F10 & Check wiring, connectors. Strainers Clogged water supply strainers. Clean. Hoses Check hoses for any kinks or obstructions. Melted rubber oozes out of SS braids. Hoses lying against steam hoses. Replace hose(s).

143	No Purified Water	Failure to reach operating level with purified water during the filling process. If, in the filling process with purified water (Y13), Operating Level 2 of the level sensor (P1) is not reached within 7 minutes, the controller terminates the current program with error display Cause and remedy see Error 141.	K13	Supply and shut off valves Check with facilities maintenance for any water outages. Verify all water supply valves are turned on. Water valves Water valves not opening. Activate all water valves in the service mode and verify activation/flow. Check voltage to coil & Check 24Vac power supply & Check fuses F1, F2, F9, F10 & Check wiring, connectors. Strainers Clogged water supply strainers. Clean. Hoses Check hoses for any kinks or obstructions. Melted rubber oozes out of SS braids. Hoses lying against steam hoses. Replace hose(s).
146	No Purified Water from Tank	Failure to reach operating level with pre-heated purified water (M9) from the tank during the filling process. If Operating Level 2 is not reached within 3 minutes while the filling process with pre-heated purified water (Y14) is under way, the controller terminates the current program with error display. Threshold monitoring: Threshold adjustment for pre-heated DI water supply.	K14	Supply and shut off valves Check with facilities maintenance for any water outages. Verify all water supply valves are turned on. Water valves Water valves not opening. Activate all water valves in the service mode and verify activation/flow. Check voltage to coil & Check 24Vac power supply & Check fuses F1, F2, F9, F10 & Check wiring, connectors. Strainers Clogged water supply strainers. Clean. Hoses Check hoses for any kinks or obstructions. Melted rubber oozes out of SS braids. Hoses lying against steam hoses. Replace hose(s).

147	Overflow Level	The maximum overflow level has been reached. If, while the circulation pump is running, the overflow level of 2.1 V of the level sensor (P1) is exceeded for more than 5 s, the controller terminates the current process with error display. If, during a water step without active circulation pump, the static overflow level of 2.3 V of the level sensor (P1) is exceeded for more than 5 s, the controller terminates the current process with error display. Dynamic threshold = 2.1 V (with circulation pump M15). Static threshold = 2.3 V (without circulation pump M15).		Water valves Water valves not closing. Water flow during standby or with door open. Replace valve(s). Level sensor Check voltage at transducer or input to control board. Empty level: 0.5Vdc, Working level: minimum 1.0Vdc, dynamic reading or no change in reading. Check the transducer hose for the presence of water (indicates a hole/leak in the hose). Check hose for kinks or pinched areas. Replace sensor Replace sensor board Check wiring Check input to control board Check power supply Replace control board Overflow sensor Sensor faulty Obstructed hose
148	No Drainage	Empty level monitoring system detects no change of level during drainage of washing chamber. If the level does not drop to 0.7V (empty level +0.2V) within 3 minutes while drainage via drainage valve (Y31) or drainage pump is in process, the controller terminates the current process with error display. Threshold monitoring: Only during drainage until empty level has been reached, or for 5 s after start of drainage.	K31	Drain Valve: Drain valve doesn't open. Activate valve in the service mode and verify activation/flow. Solenoid activates: Check drain boot, replace if faulty. Check voltage to coil: Check wiring & check power supply, fuses. Check output LED on Control PCB: Replace Control PCB.

149	Level Too Low	Water level has dropped below minimum operating level during washing process. Loss of water in the washing phase. If the level drops below the minimum level of 1 Volt for 15 s in the course of the washing cycle, the controller terminates the current process with display. Threshold monitoring: Only during the heating phase.		Drain valve Drain valve not closing. If possible, check floor drain for water flow during wash. If drain boot suspected, do not dismantle drain valve until replacement part available. Replace drain boot. Level sensor Faulty level sensor. Check voltage at transducer. Empty level: 0.5Vdc, Working level: minimum 1.0Vdc, dynamic reading. Replace sensor Replace sensor board Check wiring Check power supply Check input to control board Replace control board.
150	Level Too High	Maximum level (water above edge of door) exceeded. Unwanted entry of water into the washing chamber. If the level of 3.2V is exceeded for 3 s, the controller terminates the current process with error display. As long as the level is above 3.2V, the washing chamber doors remain locked. Threshold monitoring: As long as the device is switched on.		
151	Dosage 1 False	No dosing, or too high dosage. Flow Meter 1 does not detect required impulses. If a dosage has been programmed with Flow Meter 1 in the stepphase, at least 10 impulses of Flow Meter 1 must be counted within 1 minute during dosing with Motor (M21), and at least 50 impulses for every further 6 seconds. Otherwise the controller terminates the current process with error display.		
152	Dosage 2 False	Dosing pump, Flow Meter 2 See Error 151		
153	Dosage 3 False	Dosing pump, Flow Meter 3 See Error 151		
154	Dosage 4 False	Dosing pump, Flow Meter 4 See Error 151		

161	No Heat - Washing Chamber	Temperature sensor in the washing chamber detects no change during heating phase. If a minimum temperature change of 1°C is not detected during the heating phase in the washing chamber (NTC1) within the specified time period (3 min), or if during the holding phase the temperature is no longer reached for more than 3 minutes, the controller terminates the current process with error display. Threshold monitoring: During the heating and holding phase with water.		No change in temperature during heating phase. - Tank sensor: During cycle, check display for change in temperature of wash water. If steam hoses hot: Check wiring to sensor & Replace sensor & Check Control PCB No heating. - Steam Valve: Steam available? Pressure Open steam supply and return valves. If Steam valve doesn't open: Check wiring & Check 24Vac.
162	No Heat - PW Tank	The temperature sensor in the PW tank detects no change of temperature during the heating phase. If a minimum temperature change of 1°C is not detected during the heating phase in the PW tank (NTC4) within a specified time period (5 min), the controller terminates the current process with error display. Threshold monitoring: During the heating and holding phase Causes and remedies see Error 161.		

163	Water Too Hot	Temperature too high. Temperature 8°C higher than intended, and >45°C for pre-rinse function. Target temperature exceeded by 5°C within the washing steps (M1-4) and (M9). Termination criterion: If the target temperature of Sensor NTC1 is exceeded by 5°C during 1 minute in the course of a water step (M1-4, M9) after the filling process has been completed, the controller terminates the current process. If no temperature is entered (00 by default), the monitoring function is inactive and no error is triggered. A maximum temperature of 45°C is permitted in the cold pre-rinse function F1. If a water temperature of 45°C is exceeded, Error 163 "Water too hot" is likewise displayed and the process is terminated. Termination criterion: If "00°C" is entered for the temperature during a water step (M1-4, M9) and Function F1, and if a water temperature of 45°C, as measured by Sensor NTC1, is exceeded during one minute after the filling process has been completed, the controller terminates the current process.		
164	No Drying	The drying temperature is monitored. Unless "0°C" has been entered, a temperature of at least 80°C must be reached within 50 s after the start of the step. Safety temperature limiter (STL) was triggered (red button).		

185	No DI tank	The input "DI Tank Code, SC" is open when reaching a program step with Utility M8.	SC	
188	No Communication with I/O	No communication.		
189	No Communication with IPD	No communication (IPD).		
190	No Communication with SPI Bus	General communication problem of data connections to controllers due to voltage breakdown.		
191	Input Voltage Error	Supply voltage for ECU controller too low. (<22VAC)		With WDs - US voltage is 208VAC 3ph. BW has 4 transformers (2x 230VAC & 2x 208VAC). The 208VAC transformers are required to maintain a low voltage >22VAC - above Alarm level. Common issue with WD250s and 84000 board. Transformer should be part - 73999 (208VAC 50/60Hz - 24V 150VA)
192	SC Test Error	The deviation of the current measurement result from calibration characteristics exceeds the specified tolerance limit.		
193	No Communication with RFID	There is a communication problem with the RFID (Radio Frequency Identification) -PCB.		
194	No Transponder Reception	Failure to read transponder.		
195	Emergency stop - Loading side	Activating the Emergency Stop immediately interrupts the process.	S207	
196	Emergency stop - Unloading side	Activating the Emergency Stop immediately interrupts the process.	S208	
300	Wash arm top 1	Wash arm 1 (Top) is jammed	WAS1L,WAS1R	

301	Rack wash arm 2	Rack wash arm 2 is jammed	WAS2L-WAS10L,	
302	Rack wash arm 3	Rack wash arm 3 is jammed	WAS2L-WAS10L,	
303	Rack wash arm 4	Rack wash arm 4 is jammed	WAS2L-WAS10L,	
304	Rack wash arm 5	Rack wash arm 5 is jammed	WAS2L-WAS10L,	
305	Rack wash arm 6	Rack wash arm 6 is jammed	WAS2L-WAS10L,	
306	Rack wash arm 7	Rack wash arm 7 is jammed	WAS2L-WAS10L,	
307	Wash arm bottom 8	Wash arm 8 (bottom) is jammed	WAS11	